Incorporated in the penthouse is a 150-seat auditorium while the observation lobby is decorated with an abstract canvas mural (37 feet by 10 feet) painted by Toronto artist Harold Town and giving his impression of the development

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CARON and

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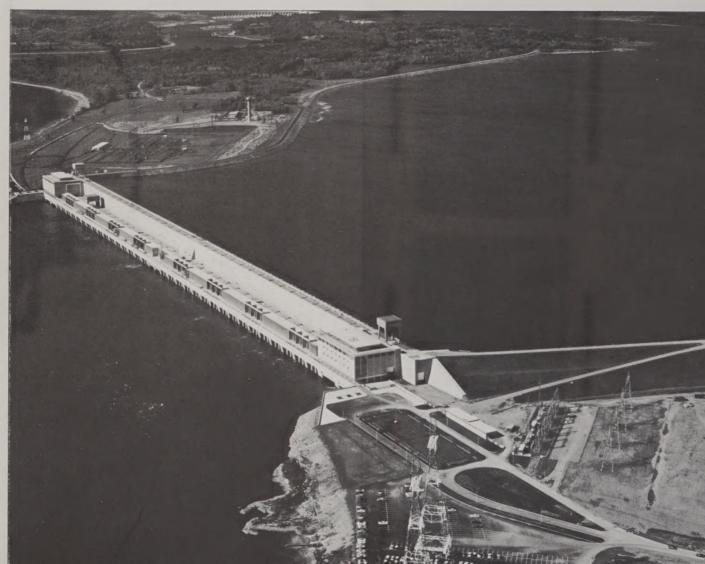
-2018 power commission



the international seaway and power project

agricultural heart of North America, the St. Lawrence system has long been a vital

Penetrating over 2,000 miles into the industrial and trade artery. Now the historic river is also an important source of hydro-electric energy for the industry and people it serves.



Canadian and American engineers set out at Cornwall in 1954 to tame the formidable H. Saunders, a former chairman rapids of the St. Lawrence. It meant building three huge dams advocate of the project. and miles of dykes. But in four years electricity was flowing from two adjoining power stations, one in Canada and the Construction costs of other in the United States

Generators on the Canadian side of the river feed into Ontario Hydro's East System. a power network serving the whole of Southern and Northeastern Ontario. Their capacity totals more than 900,000 kilowatts, equal to the needs of about 600,000

The Canadian power station is named after the late Robert of Ontario Hydro and leading The plant's American counterpart adjoining Barnhart Island, is the Robert Moses Power Dam. \$600,000,000 were shared by Ontario Hydro and the Power Authority of the State of New York.

Flooding of the huge headpond Both stations were opened in area called for a vast removal program. Homes and even cemeteries were relocated. Eight Canadian communities were affected and Ontario Hydro Elizabeth in June, 1959. built new shopping centres. schools, churches, roads. sidewalks, waterworks, sewage treatment plants, and recreation the common purpose of two areas for the 6,500 persons displaced.

Only farm tamilies and cottage owners were involved on the sparsely populated American side. the works of peace."

1958 while a monument at the international boundary line of the powerhouse structure was unveiled by Queen Inscribed on a huge slab of black granite are these words: "This stone bears witness to nations, whose frontiers are the frontiers of friendship. whose ways are the ways of freedom, and whose works are

Three dams and 16 miles of dykes utilize the drop in water level between Lake Ontario and the powerhouses. 125 miles downstream.

form a continuous structure 3,300 feet long. Generators are U.S. mainland. not housed in conventional superstructures, but are protected by removable hatch covers.

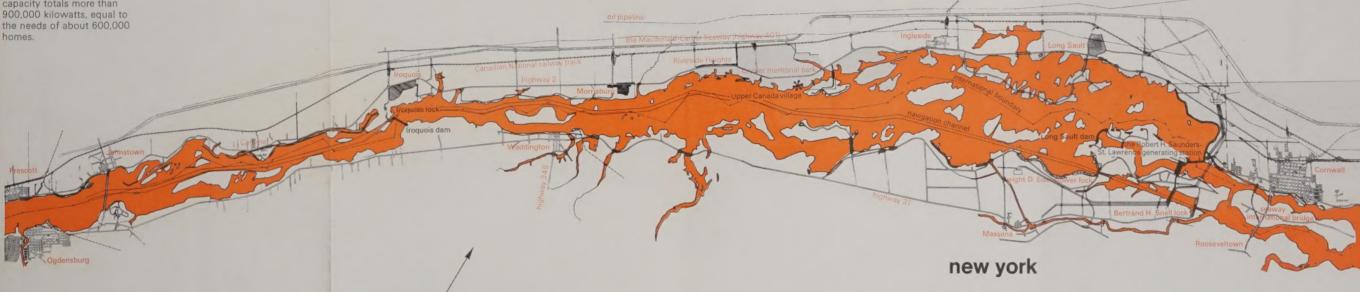
Long Sault dam is about three miles upstream from the powerhouses and blocks off a former channel of the St. Lawrence. It stretches The main dam and powerhouses 2,960 feet from the western end of Barnhart Island to the

ontario

Iroquois dam spans the river between Point Rockway in the U.S. and Iroquois Point in Canada, about 25 miles upstream from Long Sault dam. shoreline west from the main It is 2,250 feet long, 72 feet high dam and along the Ontario from Lake Ontario.

storage area now known as Lake St. Lawrence. They stretch along the New York State and controls the flow of water shore north and west of the dam. Major construction included improvement of the Seaway channel between Prescott and Cornwall. The enlarged channel aids navigation and improves power production in winter when ice forms over Lake St. Lawrence.

The dykes contain the water



living history

Situated in an important tourist area, the Robert H. Saunders-St. Lawrence than 100,000 visitors a year. Only 15 miles to the west is Upper Canada Village, which development and Seaway.

Historic homes, churches, mills, taverns and shops were saved from flooding, restored to their original condition, and relocated generating station attracts more in the village to present a living tableau of early Canada.

Campsites, picnic areas and beaches abound in the miles owes its existence to the power of parkland under development along the St. Lawrence.

some facts

Canada and U.S.

number of turbines number of generators total capacity main dam powerhouse height average head average flow headpond area watershed area

32 (75,000 BHP, 94.7 rpm) 32 (60,000 KVA, 60 c/s, 13,800 volts) 1,824,000 kilowatts 3,300 ft. long 167 ft. 83 ft. 240,000 cu. ft. a sec. 100 sq. miles

298,000 sq. miles

power recipe

Structures on both sides of the river required 6,400,000 tons of concrete, 2,000,000 tons of sand, 3,200,000 tons of stone, 28,000 tons of structural steel, 59,300 tons of reinforcing steel and 3,600,000 barrels of cement.